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ATTY. DOCKET NO.

10589-013-999

APPLICATION NO.

10/551,301

APPLICANT

Trotta, C.

FILING DATE

July 12, 2006

ART UNIT

1639

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
	A01	4,987,071	01/22/91	Cech et al.	
	A02	5,093,246	03/03/92	Cech et al.	
	A03	5,310,664	05/10/94	Butow et al.	
	A04	5,354,855	10/11/94	Cech et al.	
	A05	5,439,797	08/08/95	Tsien et al.	
	A06	5,591,610	01/07/97	Cech et al.	
	A07	5,726,195	03/10/98	Hill et al.	
	A08	5,776,738	07/07/98	Dell'Orco Sr.	
	A09	5,939,288	08/17/99	Thornburg	
	A10	5,994,124	11/30/99	Bozzoni	
	A11	6,025,167	02/15/00	Cech et al.	
	A12	6,180,399	01/30/01	Cech et al.	
	A13	6,214,563	04/10/01	Negulescu et al.	
	A14	6,221,587	04/27/01	Ecker et al.	
	A15	6,221,612	04/24/01	Knapp et al.	
	A16	6,232,070	05/05/01	Shuman	
	A17	6,446,032	09/03/02	Schimmel	

FOREIGN PATENT DOCUMENTS

		FOREIGN PATENT DOCUMENT COUNTRY CODE, NUMBER, KIND CODE (IF KNOWN)	DATE	NAME	PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR	T
	B01	WO 91/09942	07/11/91	Board of Regents, The University of Texas System		
	B02	WO 98/49274	11/05/98	Appligene-Oncor		
	B03	WO 99/20795	04/29/99	Melica HB		
	B04	WO 01/12820	02/22/01	Health Research Institute		
	B05	WO 01/25486	04/12/01	University of Medicine and Dentistry of New Jersey		
	B06	WO 01/92463	12/06/01	Istituto di biologia Cellulare, CNR		
	B07	WO 02/083837	10/24/02	Almstead		

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04/03/2009

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	B08	WO 02/083953	10/24/02	PTC Therapeutics, Inc		
	B09	WO 02/40685	05/23/02	Cornell Research Foundations, Inc.		
	B10	WO 02/42326	05/30/02	Biota Scientific Management Pty LTD		
	B11	WO 04/001010	12/31/03	PTC Therapeutics, Inc.		
	B12	WO 04/087070	10/14/04	PTC Therapeutics, Inc.		
	B13	WO 04/087884	10/14/04	PTC Therapeutics, Inc.		
	B14	DE 3436818	04/10/89	Hoechst AG		
	B15	CN 1328156	12/26/01	Wuhan Inst Of Virology Chinese		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials		(Include name of the author (in CAPITAL LETTERS), Title, Date, Pertinent Pages, Etc.)	T
	C01	ABELSON et al., 1998, "tRNA splicing." Journal of Biological Chemistry 273(21):12685-12688	
	C02	ADAMS et al., 1991, "Fluorescence ratio imaging of cyclic AMP in single cells." Nature 349:694-697	
	C03	BALDI et al., 1992, "Participation of the intron in the reaction catalyzed by the Xenopus tRNA splicing endonuclease." Science 255:1404-1408.	
	C04	BARBINO & KELLER, 1999, "Last but not least: regulated poly(A) tail formation." Cell 99(1):9-11	
	C05	BELFORD et al., 1993, "Multiple nucleotide cofactor use by yeast ligase in tRNA splicing. Evidence for independent ATP- and GTP-binding sites" J. Biol. Chem. 268(4):2444-2450	
	C06	BELFORT, M., & WEINER, A., 1997, "Another bridge between kingdoms: tRNA splicing in archaea and eukaryotes." Cell 89(7):1003-1006.	
	C07	BJORK, G., 1995, "Biosynthesis and Function of Modified Nucleosides, in tRNA: Structure, Biosynthesis and Function." D. Soll & U. RajBhandary (eds.), American Society for Microbiology, Washington DC: pp. 165-205	
	C08	BUJNICKI, J.M., & RYCHLEWSKI, L., 2000, "Prediction of a common fold for all four subunits of the yeast tRNA splicing endonuclease: implications for the evolution of the EndA/Sen family." FEBS Lett 486: 328-329.	
	C09	BUVOLI et al, 2000, "Suppression of nonsense mutations in cell culture and mice by multimerized suppressor tRNA genes" Molecular and Cellular Biology 20(9):3116-3124	
	C10	CALVO, O., AND MANLEY, J.L., 2003, "Strange bedfellows: polyadenylation factors at the promoter." Genes Dev 17(11):1321-1327.	
	C11	CHOI AND DREYFUSS, 1984, "Monoclonal antibody characterization of the C proteins of heterogeneous nuclear ribonucleoprotein complexes in vertebrate cells." J. Cell. Biol. 99(6):1997-2004	
	C12	CULVER et al., 1997, "A 2'-phosphotransferase implicated in tRNA splicing is essential in <i>Saccharomyces cerevisiae</i> ." J Biol Chem 272:13203-13210.	
	C13	DE VRIES, H. et al., 2000, "Human pre-mRNA cleavage factor II(m) contains homologs of yeast proteins and bridges two other cleavage factors." EMBO J 19:5895-5904.	

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	C14	DEUTSCHER, M.P. , 1995 "tRNA Processing Nucleases, in tRNA:Structure, Biosynthesis and Function." D. Soll and U. RjaBhandary (eds.), American Society for Microbiology, Washington DC: pp. 51-65	
	C15	DIENER & MOORE, 1998, "Solution Structure of a Substrate for the Archaeal Pre-tRNA Splicing Endonucleases: The Bulge-Helix-Bulge Motif." Mol. Cell. 1:883-894	
	C16	FABBRI, S et al., 1998, "Conservation of substrate recognition mechanisms by tRNA splicing endonucleases." Science 280, 284-286.	
	C17	FRANK & PACE, 1998, "Ribonuclease P: unity and diversity in a tRNA processing ribozyme." Annu Rev Biochem 67, 153-180.	
	C18	FRUSCOLONI et al., 2001, "Cleavage of non-tRNA substrates by eukaryal tRNA splicing endonucleases." EMBO Rep 2(3):217-221	
	C19	GANDINI-ATTARDI, et al., 1990, "Transfer RNA splicing endonuclease from <i>Xenopus laevis</i> ." Methods Enzymol 181:510-517.	
	C20	GENBANK: Accession No: NP_079541: "tRNA splicing endonuclease 2 homolog [Homo sapiens]"	
	C21	GENBANK: Accession No: NT_005927.12: "Homo sapiens chromosome 3 reference genomic contig"	
	C22	GENBANK: Accession No: NT_011225.9: "Homo sapiens chromosome 19 reference genomic contig."	
	C23	GENBANK: Accession No: XP_085899; "similar to LENG5 protein [Homo sapiens]."	
	C24	GOMES et al., 1997, "RNA splicing ligase activity in the archaeon <i>Haloferax volcanii</i> " Biochem & Biophys. Res. Comm. 237:588-94	
	C25	GREER et al., 1982, "Mechanism of action of a yeast RNA ligase in tRNA splicing" Cell 32:537-546	
	C26	GREER., 1986, "Assembly of tRNA Splicing Complex: Evidence for Concerted Excision and Joining Steps in Splicing <i>In Vitro</i> ." Mol. and Cellular. Bio., 6(2):638-642	
	C27	HIROSE AND MANLEY, 2000, "RNA polymerase II and the integration of nuclear events." Genes Dev., 14(12):1415-1429	
	C28	HOPPER, A.K., AND PHIZICKY, E.M., 2003, "tRNA transfers to the limelight." Genes Dev 17(2):162-180.	
	C29	HUH, et al., 2003, "Global analysis of protein localization in budding yeast." Nature 425:686-691.	
	C30	HYDE-DERUYSCHE et al., 2000, "Detection of Small-Molecule Enzyme Inhibitors with Peptides Isolated from Phage-Displayed Combinatorial Peptide Libraries." Chem. & Biol. 7:17-25	
	C31	IKEMURA, 1985, "Codon Usage and tRNA Content in Unicellular and Multicellular Organisms." Mol. Biol. Evol., 2(1):13-34	
	C32	IKEMURA, T. AND OKEKI, H., 1983, "Codon usage and transfer RNA contents: organism-specific codon-choice patterns in reference to the isoacceptor contents." Cold Spring Harbor Symp. Quant. Biol. 47:1087-1097	
	C33	JACOBSON et al., 1997, "Nuclear domains of the RNA subunit of RNase P." J Cell Sci. 110 (Pt 7):829-837.	
	C34	KLEMAN-LEYER et al., 1997, "Properties of <i>H. volcanii</i> tRNA Intron Endonuclease Reveal a Relationship between the Archaeal and Eucaryal tRNA Intron Processing Systems." Cell., 89:839-847	
	C35	LASKI, F.A. et al., 1983, "Characterization of tRNA precursor splicing in mammalian extracts." J Biol. Chem. 258(19):11974-11980.	
	C36	LI & ABELSON, 2000, "Crystal Structure of a Dimeric Archaeal Splicing Endonuclease." J. Mol. Biol. 302:639-648.	
	C37	LI et al., 1998, "Crystal structure and evolution of a transfer RNA splicing enzyme" Science 280(5361):279-284	

EXAMINER NYI-3913323v3	/Christian Boesen/	DATE CONSIDERED 04/03/2009
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	C38	LYKKE-ANDERSEN, J. & GARRETT, R.A., 1997, "RNA-protein interactions of an archaeal homotetrameric splicing endoribonuclease with an exceptional evolutionary history." EMBO J 16(20):6290-6300.	
	C39	MINVIELLE-SEBASTIA, L. & KELLER, W., 1999, "mRNA polyadenylation and its coupling to other RNA processing reactions and to transcription." Curr. Opin. Cell. Biol. 11:352-357	
	C40	O'CONNOR, J.P., & PEEBLES, C.L., 1992, "PTA1, an essential gene of <i>Saccharomyces cerevisiae</i> affecting pre-tRNA processing." Mol Cell Biol 12:3843-3856.	
	C41	OTSUKA, et al., 1981, "Ribonuclease 'XlaI' an activity from <i>Xenopus laevis</i> oocytes that excises intervening sequences from yeast transfer ribonucleic acid precursors." Mol Cell Biol 1:269-280.	
	C42	PARK & BHANDARY, 1998, "Tetracycline-regulated suppression of amber codons in mammalian cells." Mol. & Cell. Biol. 18:4418-4425	
	C43	PHIZICKY et al., 1986, "Saccharomyces cerevisiae tRNA ligase. Purification of the protein and isolation of the structural gene" J. of Biol. Chem. 261(6):2978-2986	
	C44	PREKER et al., 1997, "A multisubunit 3'-end processing factor from yeast containing poly(A) polymerase and homologues of the subunits of mammalian cleavage and polyadenylation specificity factor." EMBO J 16:4727-4737.	
	C45	PROUDFOOT, 2000, "Connecting transcription to messenger RNA processing." Trends Biochem Sci. 2000 Jun;25(6):290-3. Review.	
	C46	QIN & PYLE, 1999, "Site-specific labeling of RNA with fluorophores and other structural probes." Methods 18 (1):60-70	
	C47	RAUHUT et al., 1990, "Yeast tRNA-splicing endonuclease is a heterotrimeric enzyme." J Biol. Chem. 265(30):18180-18184.	
	C48	REYES & ABELSON 1988, "Substrate Recognition and Splice Site Determination in Yeast tRNA Splicing." Cell, 55:719-730	
	C49	SARKAR & HOPPER., 1998, "tRNA Nuclear Export in <i>Saccharomyces cerevisiae</i> : In Situ Hybridization Analysis." Mol. Biol. of the Cell., 9:3041-3055	
	C50	SAXENA et al., 1992, "Angiogenin is a Cytotoxic, tRNA-specific Ribonuclease in the RNase A Superfamily." J. of Biol. Chem. 267(30):21982-21986	
	C51	STANDRING et al., 1981, "Yeast tRNA ³ Leu gene transcribed and spliced in a HeLa cell extract." Proc. Natl. Acad. Sci. USA 78(10):5963-5967.	
	C52	TAKAGAKI et al., 2000, "Complex protein interactions within the human polyadenylation machinery identify a novel component." Mol. Cell. Biol. 20:1515-1525.	
	C53	TAKAKU et al., 2003, "A candidate prostate cancer susceptibility gene encodes tRNA 3' processing endoribonuclease." Nucleic Acids Res 31(9):2272-2278.	
	C54	TROTTA et al., 1997, "The yeast tRNA splicing endonuclease: a tetrameric enzyme with two active site subunits homologous to the archaeal tRNA endonucleases." Cell 89:849-858.	
	C55	TROTTA, C.R. AND ABELSON, J.N., 1999, "tRNA Splicing: An RNA World Add-On or an Ancient Reaction? In RNA World II" Tom Cech, Ray Gesteland and John Atkins (eds.), Cold Spring Harbor Laboratory Press, 561-584	
	C56	TROTTA., 1999, "The Composition, Function and Evolution of the tRNA Splicing Endonuclease." Thesis, California Institute of Technology, pp.1-147	
	C57	TSIEN et al., 1993, "FRET for studying intracellular signaling." Trends in Cell. Bio. 3(7): 242-245	
	C58	VAUGHN et al., 2002, "Methionine In and Out of Proteins: Targets for Drug Design." Curr. Med. Chem. 9(3):385-409	

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	C59	VOLAREVIC et al., 2000, "Proliferation, But not Growth Blocked by Conditional Deletion of 40S Ribosomal Protein S6." Science 288:2045-2047	
	C60	WAHLE & RUEGSEGG, 1999, "3'-End processing of pre-mRNA in eukaryotes." FEMS Micro Rev., 23(3):277-295	
	C61	WALLACE et al., 1999, "Two distinct forms of the 64,000 Mr protein of the cleavage stimulation factor are expressed in mouse male germ cells." Proc. Natl. Acad. Sci. 96(12):6763-6768	
	C62	WANG et al., 1990, "Substrate Masking: Binding of RNA by EGTA-Inactivated Micrococcal Nuclease Results in Artifactual Inhibition of RNA Processing Reactions." Nuc. Acids Res. 18(22):6625-6626	
	C63	WINTER et al., 2000, "RNA polymerase III transcription factor TFIIC2 is overexpressed in ovarian tumors." Proc. Natl. Acad. Sci., 97(23):12619-12624	
	C64	XIAO et al., 2002, "Eukaryotic ribonuclease P: a plurality of ribonucleoprotein enzymes." Annu Rev Biochem 71, 165-189.	
	C65	XU et al., 1990, "Purification of yeast transfer RNA ligase." Meth. in Enzymol. 181:463-471	
	C66	Yeast Accession No: M32336: SEN2	
	C67	Yeast Accession No: YAR008w: SEN34	
	C68	Yeast Accession No: YMR059w: SEN15	
	C69	Yeast Accession No: YPL083c: SEN54	
	C70	YOSHIHISA et al., 2003, "Possibility of cytoplasmic pre-tRNA splicing: the yeast tRNA splicing endonuclease mainly localizes on the mitochondria." Mol Biol Cell 14(8):3266-3279.	
	C71	ZHANG et al., 1997, "Gene Expression Profiles in Normal and Cancer Cells." Science 276:1268-1272	
	C72	ZHAO, 1999 "Formation of mRNA 3' ends in eukaryotes: mechanism, regulation, and interrelationships with other steps in mRNA synthesis." Microbiol. Mol. Biol. Rev. 63:405-445.	
	C73	REYES et al., 1987, "A synthetic substrate for tRNA splicing." Anal. Biochem. 166(1):90-106	

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